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MANGOTSFIELD
URBAN DISTRICT COUNCIL

ANNUAL REPORT

OF THE

Medical Officer of Health

FOR THE YEAR

1947

BRISTOL :

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MANGOTSFIELD
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MANGOTSFIELD URBAN DISTRICT

Comprising—

DOWNEND, SOUNDWELL & MANGOTSFIELD WARDS.

Chairman of the Council—

B. J. WOODHALL, Esq.

Vice-Chairman of the Council—

F. COWLES, Esq.

Members of the Council—

Mrs. H. SMITH.

Miss C. M. GAPPER.

H. F. WREN, Esq.

F. BANKS, Esq.

A. BEAZER, Esq.

J. R. BIZLEY, Esq.

E. P. BIRT, Esq.

H. C. BRACEY, Esq.

H. G. HARRIS, Esq.

W. HATHWAY, Esq.

J. SHEPPARD, Esq.

W. HUGHES, Esq.

R. E. G. POWELL, Esq.

Clerk to the Council—

FRANK WALLACE, Esq.

Public Health Staff—


Medical Officer of Health ... Dr. J. MENZIES CORMACK, M.B.,
(M.O.H. to combined South Gloucestershire Districts). Ch.B., D.P.H., D.P.A.

Sanitary Inspector and Surveyor ... Mr. F. ALAN LONG, M.I.Mun.E.
A.R.I.C.S., M.S.I.A.

Clerical Assistant ... Mr. G. D. HOWELL. *A.R.I.C.S.*

Public Health Offices ... COUNCIL OFFICES, STAPLE HILL,
BRISTOL.

Sewerage Works ... MOOREND, Nr. DOWNEND, BRISTOL.



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ANNUAL REPORT

FOR THE YEAR

· 1947 ·

*To the Chairman and Members of the
Mangotsfield Urban District Council.*

GENTLEMEN,

I have the honour to present my tenth Annual Report on the Health of this district, this being the twentieth report since the formation of the Urban District in 1927.

The report is based in accordance with the requirements on the Ministry of Health Circular 170/47, and statistics are calculated from returns made by the Registrar-General.

A.—STATISTICS AND SOCIAL CONDITIONS OF THE AREA.

(i) General Statistics.

Area.	...	...	...	...	...	1,553 acres.
Population (Registrar-General's estimate mid. 1947)	...	...	...	...	...	16,990
Number of inhabited houses, (Dec.)	...	...	...	...	...	4,836.
Number of houses void (Dec.)	...	...	...	...	...	Nil.
Rateable Value of District	...	...	...	...	...	£72,631.
Sum represented by 1d. rate	...	...	...	...	...	£288.

(ii) Social Conditions.

No important change has taken place in the nature of the chief trades carried out in the local industries.

The following indicates the principal trades :—

Boot and Shoe Making.	Baking and Confectionery.
Motor Repairing.	Laundrying.
Light Engineering.	Building.
Clothing.	Saw Mill and Ladder Making.
Printing.	Tea and Flour Packing.
Market Gardening.	

(iii) Extracts from Vital Statistics for the Year 1947.

			M.	F.	Total.
Live Births—Legitimate	...	...	145	150	295
Illegitimate	...	...	7	6	13
Still Births—Legitimate	...	...	2	4	6
Illegitimate	...	...	

Deaths.

Death Rate of Mangotsfield Urban per 1,000 estimated population)	10.5
Death Rate of England and Wales (per 1,000 estimated population)	...	...	...	...	12.
Still Birth Rate of Mangotsfield Urban (per 1,000 estimated population)	...	...	...	...	4

Births.

Birth Rate Mangotsfield Urban per 1,000 popu- lation	15.1
Birth Rate England and Wales (per 1,000 popu- lation)	...	...	...	...	...	20.5
Death Rate of Mangotsfield Urban in 1939	...	...	...	...	...	11.6
Birth Rate of Mangotsfield Urban in 1939	...	...	...	...	...	18.6

The population of the area still continues to increase, and
is now 16,990

The following list shows population in previous years :—

1931 (Census	...	...	...	11,251
1938	...	...	...	14,380
1940	...	...	...	15,960
1944	...	...	...	16,500
1946	...	...	...	16,560

The following list shows the number of houses in the area
during the same period :—

1931	...	...	...	2,801
1938	...	...	...	4,600
1944	...	...	...	4,700
1946	...	...	...	4,700
1947	...	...	...	4,836

[illegible]

B.—GENERAL PROVISION OF HEALTH SERVICES IN THE AREA.

(i) **Public Health Staff.**

Mr. G. D. Howell has returned from service with H.M. Forces.

Mr. D. S. Cross has been transferred from the Department.

A list of Officers is set out on the third page of this report.

(ii) **Public Health Services.**

(a) *Laboratory Services.*

Examinations of Sputa, Swabs and Blood are carried out by the Department of Preventive Medicine, Bristol University, through an arrangement with the County Council.

(b) *Ambulance Facilities.*

The St. John Ambulance Brigade and the Bristol City & Marine Ambulance Corps continue to serve the district for accidents and ordinary cases. Their service is efficient and satisfactory and is adequate for the needs of the area. For cases of infectious diseases the ambulance of the Mangotsfield & Warmley Joint Hospital Committee is also used.

(c) *Treatment Centres.*

The Clinic at Soundwell Road, which is maintained by the County Council is available for treatment of residents of the Urban District. The Clinic includes a Tuberculosis Dispensary where patients are seen at the request of Local Practitioners. It is also used for treatment of eye defects, ear, nose and throat defects and minor ailments, dental defects and orthopaedic treatment.

Specialists in the treatment of various conditions attend at regular intervals.

(iii) **Hospitals.**

Cases of infectious diseases have been accommodated at the Mangotsfield Isolation Hospital and Ham Green Hospital.

The following table gives details of patients treated in hospital during the year, showing average number of days per patient.

Patients treated in Hospital.

Hospital	Number of Patients	Total Number of days	Average No. of days per patient
MANGOTSFIELD ISOLATION HOSPITAL.			
Scarlet Fever	1	68	68
Measles	1	5	5
Whooping Cough ...	1	20	20
HAM GREEN HOSPITAL.			
Scarlet Fever	4	88	22
Diphtheria	1	38	38
Acute Polio Myelitis ...	3	102	34
Enteritis	1	21	21
Cerebro Spinal Fever ...	2	45	22.5
Acute Diarrhoea ...	1	15	15
Bullas Impetigo ...	1	10	10

C.—SANITARY CIRCUMSTANCES OF THE AREA.**1. Drainage and Sewerage.**

Extensions of sewers have been necessary owing to housing developments, and duplication of a main sewer to serve the Hill-house Estate and area is being undertaken.

During the year 1947, the undermentioned connections to the sewers were made :—

Houses from outside the Urban Area	...	7
New Private Houses	... ..	26
New Council Houses	... ..	110
Total Connections	... ..	143

Since the Post-War Housing Programme commenced in 1946, 216 houses have been connected.

Plans for extensions to the Outfall Works are being considered jointly by the Urban Council and Sodbury R.D.C. General approval has been reached. Plans have been prepared for doubling the existing capacity and is to include sludge digestion.

2. Water.

Water supplies are maintained by the West Gloucestershire Water Company.

THE COUNTIES PUBLIC HEALTH LABORATORIES,
66 VICTORIA STREET,
LONDON S.W. 1.

Analysis of a sample of Water received on 6/1/48, from West Gloucestershire Water Co.

Labelled Shipton Moyne, Consumer's Tap, Chlorinated water.

Taken by C. W. Hooper. Witness – Date 5/1/48, 10.30 a.m.

Appearance—Very faint opalescence with a very slight flocculent deposit of iron oxide.

Turbidity (Silica Scale) Less than 5.

Colour (Hazen) Nil.

Odour. Nil.

Reaction, pH Neutral : 7.4 Free Carbon Dioxide 14.

Electric conductivity at 20° C. 615 Alkalinity as CaCO₃ 240.

Ca.	Mg.	Na.	CO ₃	SO ₄	Cl.	NO ₃	SiO ₂	Probable Combinations.	
79	9.4		144	48	49	A	16		
79	—	—	118	—	—	—	—	Calcium Carbonate	197
—	9.4	—	23	—	—	—	—	Magnesium „	32
—	—	2	3	—	—	—	—	Sodium Carbonate	5
—	—	23	—	48	—	—	—	Sodium Sulphate	71
—	—	34	—	—	49	—	—	Sodium Chloride	83
—	—	—	—	—	—	—	16	Silica	16
—	—	—	—	—	—	—	—	Difference	1
Total solid constituents dried at 180° C. ...								405	

* Hardness—Total 235. Carbonate (Temporary 235. Non-carbonate (Permanent) 0.

Nitrogen in Nitrates 0.0 Nitrogen in Nitrites Less than 0.01.
Free Ammonia 0.20 (N : O. 16) Free chlorine 0.07.

Albuminoid Ammonia 0.000 (N : 0.000) Oxygen absorbed in
4 hours at 27° C. 0.00

Metals—Iron : 0.54. Other metals absent.

Fluorine (F) : 0.3

P Hardness : the precise figure calculated from calcium and magnesium contents.

BACTERIOLOGICAL RESULTS.

Number of Colonies developing on Agar per c.c. or ml. in

1 day at 37°C.—5 2 days at 37°C.—7 3 days at 20°C.—7.

Presumptive Coliform Reaction Present in— Absent from 100 ml.

Bact. coli. Present in— Absent from 100 ml.

Cl. welchii Reaction Present in— Absent from 100 ml.

19th January, 1948.

(Signed) GORDON GILES.

(ii) **Water.** (*Rainfall*).

The following figures were recorded at the Outfall Works during the year :—

1st Quarter	...	...	...	7.05 ins.
2nd Quarter	...	...	...	6.39 ins.
3rd Quarter	...	...	...	4.07 ins.
4th Quarter	...	...	...	4.11 ins.
Total during year				21.62 ins.

The following figures show rainfall at the West Gloucestershire Water Company's Pumping Station :—

1945	...	...	...	28.96
1946	...	...	...	35.68
1947	...	...	...	27.85

The rainfall during the year was exceptionally low.

3. Rivers and Streams.

Samples are taken periodically at the same time as samples are taken of works effluent as one of the constituent authorities discharging into the River Frome.

4. Closet Accommodation.

Water Carriage system is general throughout the district, there only being a few exceptions in outlying positions.

5. Public Cleansing.

The whole district is covered by a weekly House Refuse Collection scheme. The increase in the number of houses has necessitated the provision of an additional vehicle.

Salvage.

There is a regular system of salvage collection, and the quantities collected compare favourably with adjoining areas.

Pig Food.

Pig Food Bins are provided, the contents being collected and processed by Bristol Corporation.

Refuse Bins.

All new houses are being provided with regulation dustbins for house refuse in accordance with the Public Health Act, 1936.

6. Sanitary Inspections of the area.

(a)	Inspections made	...	...	...	...	83
(b)	Nuisances discovered or reported	...	...	...	...	72
	„ „ „ swine only	...	...	...	...	2
(c)	Complaints received	...	...	...	...	65
(d)	Informal Notices sent	...	...	...	...	27
(e)	Statutory Notices sent	...	...	...	...	15
(f)	Nuisances abated	...	...	...	...	30
(g)	Summonses issued	...	...	...	...	Nil.
(h)	Convictions obtained	...	...	...	...	Nil.
(i)	Number of houses disinfected	...	...	...	...
(j)	Method of disinfection used	...	...	...	Fumiform.	

Premises or Occupations subject to Statutory Control.

(a) Mechanical Factories.

Number inspected	...	...	...	34
Number of inspections	...	...	...	28
Notices served	...	...	...	5

(b) Non-Mechanical Factories.

Number inspected	...	...	...	11
Number of inspections	...	...	...	11

(c) Other Premises.

Number inspected	2
------------------	-----	-----	-----	---

(d) Bakehouses.

Number inspected	...	...	...	8
Number of inspections	...	...	...	8

(e) Dairies, Cow Sheds, Milk Shops, etc.

Number inspected	...	...	...	13
Number of inspections	...	...	...	14
Action Taken	...	...	...	1

FACTORIES ACT, 1937.

The following table is submitted by request of the Ministry of Labour and National Service as required by Section 128 (3) of the Factories Act, 1937, Part I & VIII.

1.—**INSPECTIONS** for purposes of provisions as to health (including inspections made by Sanitary Inspectors)

Premises (1)	M/c line No. (2)	Number on Register (3)	Number of			M/c line No. (7)
			Inspections (4)	Written notices (5)	Occupiers prosecuted (6)	
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities ...	1	18	18			1
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority	2	29	35	5	—	2
(iii) Other Premises in which Section 7 is enforced by the Local Authority (ex- cluding out-workers' premises)	3	2	2	—	—	3
TOTAL		49	55	5	—	

FACTORIES—continued.

2.—CASES IN WHICH DEFECTS WERE FOUND.

Particulars (1)	M/c line No. (2)	Number of cases in which defects were found				Number of cases in which prosecutions were instituted (7)	M/c line No. (8)
		Found (3)	Remedied (4)	To H.M. Inspector (5)	Referred By H.M. Inspector (6)		
Want of cleanliness (S.1)	4	4	5	—	1	—	4
Overcrowding (S.2)	5	—	—	—	—	—	5
Unreasonable temperature (S.3)	6	—	—	—	—	—	6
Inadequate ventilation (S.4)	7	—	—	—	—	—	7
Ineffective drainage of floors (S.6)	8	—	—	—	—	—	8
Sanitary Conveniences (S.7) (a) insufficient	9	—	—	—	—	—	9
(b) Unsuitable or defective	10	1	2	—	1	—	11
(c) Not separate for sexes	11	—	—	—	—	—	11
Other offences against the Act (not includ- ing offences relating to Outwork)	12	—	—	—	—	—	12
TOTAL	60	5	7	—	2	—	60

11 " Means of Escape in case of fire " Certificates were issued during the year to factories covered by Section 34 of the Factories Act.

(ii) **Shops and Offices.**

No special action was taken under the Shops Act 1934, or the Public Health Act, 1936. No new shops were constructed during the year.

(iii) **Camping Sites.**

There are no camping sites in the area.

(iv) **Smoke Abatement.**

(a) Observations made	...	...	3
(b) Complaints received	...	...	2

A satisfactory solution was found for a complaint regarding a laundry, after consultation with the Regional Smoke Abatement Committee.

(v) **Swimming Baths.**

It is proposed to erect Public Slipper and Swimming Baths at the Soundwell Playing Fields for the Kingswood and Mangotsfield Urban Districts and a Joint Committee has been formed for the running of this service.

The estimated cost is £150,000 to include heating, purification and accommodation for spectators.

The Gloucestershire County Council Education Committee will be pleased to co-operate and to make use of the facilities for school children.

(vi) **Eradication of Bed Bugs.**

Number of Council Houses found to be infested	...	1
Number of Council Houses disinfested	...	1
Number of other houses found to be infested	...	Nil.

The disinfestation is carried out by the use of a substance called " Gammaxene Smoke Generator " which is prepared for this purpose.

The work of disinfestation is carried out by the Council.

7. **Schools.**

The newer schools in the district are of a good standard.

A Medical Inspection is carried out in the schools under the control of the County School Medical Officer, and is not undertaken by the District Medical Officer of Health.

D.—HOUSING.**1. Inspection of Dwelling Houses.**

- (a) Number of Houses inspected during the year
under the Public Health and Housing Acts 55
- (b) Number of houses found to be in a state
dangerous or injurious to health ... 21
- (c) Notices served in regards to (b) 27

136 houses were constructed during the year, but the need for further houses is urgent.

Cases of overcrowding are common, and in many instances conditions are bad, although most of the very bad cases were housed during the year.

COUNCIL HOUSING

	No. of children	1 child	2 children	3 children	4 +	TOTAL.
<i>Re-Housed.</i>						
Non-Service		2	18	3	4	27
Ex-Service	1	25	43	2	6	80
TOTAL	1	20	61	5	12	109
<i>Applicants.</i>						
Non-Service	106	135	62	9	5	320
Ex-Service	266	217	35	4	-	606
TOTAL	466	355	97	13	5	926

E.—INSPECTION AND SUPERVISION OF FOODS.**(a) Milk Supply.**

The Sanitary Inspector keeps a register of Milk Producers and Milk Retailers, and he inspects dairies and shops, and takes samples of milk for bacterial content.

Bacteriological Reports on School Milk supplies are regularly received from the County Council.

Examination of Milk samples is now undertaken by the Department of Preventive Medicine, Bristol, under arrangements made by the County Council.

(b) *Meat and Other Foods.*

The slaughtering of animals is still mainly carried out at the Central Abattoir, Bristol, instead of the private slaughter houses as in pre-war years. This is necessitated by the Food Rationing Controls and is likely to be permanent.

Inspections were made of meat and other foods and Certificates of Voluntary Surrender or Condemnation were issued as required.

(c) *Adulteration.*

Any action taken under this section is taken by the Police for the County Council.

(d) *Chemical and Bacteriological Examination of Food.*

Where necessary this is carried out by the Department of Preventive Medicine.

F.—PREVALENCE OF, AND CONTROL OVER, INFECTIOUS DISEASES.

The number of cases of infectious diseases (other than tuberculosis) notified during the year was 57, which is 16 more than in 1946.

The following figures show the incidence of these diseases for the years immediately pre-war, during the war, and post war.

1937	...	...	...	98
1938	...	...	...	64
1940	...	...	...	95
1943	...	...	...	74
1945	...	...	...	75
1947	...	...	...	57

(a) *Diphtheria.*

2 cases were reported during the year.

Both cases were admitted to Ham Green Hospital.

There were no deaths caused by diphtheria.

The Immunisation Scheme is still in force and being administered by the County Council.

School children are being treated in schools and children under school age at the Clinic, Soundwell.

Number of children immunised each year, commencing 1938.

Age at date of immunisation.	1938/41.		1942.		1943.		1944.		1945.		1946.		1947.	
	1st.	2nd.	1st.	2nd.	1st.	2nd.	1st.	2nd.	1st.	2nd.	1st.	2nd.	1st.	2nd.
	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
0—1							92	2	15	2	20	8	—	7
1—2							110	68	30	68	20	48	12	99
2—3							123	25	7	25	5	14	2	25
3—4							202	6	3	6	4	9	—	13
4—5		315		240	145	115	202	3	6	3	7	6	—	8
5—6							200	8	6	8	22	8	—	13
7—8							231	7	7	7	11	—	—	1
8—9							188	6	6	6	2	—	—	1
9—10							184	—	2	—	1	1	—	1
10—11							129	9	1	9	—	—	—	—
11—12							160	7	—	7	1	—	—	—
12—13							178	4	—	4	—	—	—	—
13—14							187	6	—	6	—	—	—	—
14—15		51		245	189	31	152	—	—	—	—	—	—	—
							20							
Total for half year	—	366	221	485	234	146	79	2,338	83	154	93	94	16	168
Total for year	366		706		480		2,417		237		187		184	

(b) Table showing the incidence of Infectious Diseases in Wards.

Disease.				Downend	Soundwell	Mangotsfield.
Bullas Impetigo	...	...	...	—	—	1
Scarlet Fever	...	...	...	4	4	2
Diphtheria	...	...	...	—	2	—
Enteric Fever	...	...	...	1	—	—
Pnuemonia	...	...	...	—	—	—
Measles	...	...	...	24	5	—
Whooping Cough	...	...	...	1	1	—
Dysentry	...	...	...	—	—	—
Erysipelas	...	...	...	1	2	—
Polio Myelitis	...	...	...	3	—	—
Polio Encephalitis	...	...	...	—	1	—
Cerebro Spinal Fever	...	...	...	1	2	1
Ophthalmia Neonatorum	...	...	...	—	1	—
Totals				35	18	4

Table showing the incidence of infectious disease in Age Groups.

Disease.	—1	1—	2—	3—	4—	5—	10—	15—	20—	35—	65—	Total.
Scarlet Fever	—	—	—	1	—	5	2	—	2	—	—	10
Diphtheria	—	—	1	1	—	—	—	—	—	—	—	2
Poliomyelitis	—	—	—	—	—	2	—	—	1	—	—	3
Polio encephalitis	—	—	1	—	—	—	—	—	—	—	—	1
Measles	—	3	2	4	5	15	—	—	—	—	—	29
Whooping Cough	1	—	1	—	—	—	—	—	—	—	—	2
Enteritis	1	—	—	—	—	—	—	—	—	—	—	1
Dysentery	—	—	—	—	—	—	—	—	—	—	—	—
Erysipelas	—	—	—	—	—	—	—	—	1	—	2	3
Bullas Impetigo	—	—	—	—	—	—	—	—	1	—	—	1
Cerebro Spinal Fever	—	—	—	1	—	1	1	—	1	—	—	4
Pneumonia	—	—	—	—	—	—	—	—	—	—	—	—
Ophthalmia Neonatorum	1	—	—	—	—	—	—	—	—	—	—	1
TOTALS	3	3	5	7	5	23	3	—	6	—	2	57

TUBERCULOSIS.

The number of cases reported during the year was 25, (20 respiratory and 5 non-respiratory) an increase of 13 over the 1946 figure.

There were 9 deaths during the year.

(a) Table showing Sex, Ages and Occupations of new cases and deaths during the year :—

(i) Age and Sex.

Age	NEW CASES				DEATHS			
	Respiratory		Non-Respiratory		Respiratory		Non-Respiratory	
	M.	F.	M.	F.	M.	F.	M.	F.
Under 1 year	—	—	—	—	—	—	—	—
1-5 years	—	—	1	1	—	—	—	—
5-15 „ ...	—	—	2	—	—	—	—	—
15-25 „ ...	2	3	—	—	2	2	—	—
25-35 „ ...	2	4	—	—	—	1	—	—
35-45 „ ...	1	—	1	—	2	—	—	—
45-55 „ ...	2	—	—	—	1	—	—	—
55-65 „ ...	2	1	—	—	—	—	—	—
65 upwards ...	3	—	—	—	1	—	—	—
TOTALS ...	12	8	4	1	6	3	—	—

(ii) Deaths—Occupations.

RESPIRATORY.		NON-RESPIRATORY.	
M.	F.	M.	F.
15 yr NONE 42 yr BAKER 19 years Doorman 61 yr RETIRED 39 years ??? 46 yr ENGINEER	31 years Housewife 24 yr NONE 18 years None	Nil.	Nil.

(iii) *New Cases—Occupations.*

RESPIRATORY.		NON-RESPIRATORY.	
M.	F.	M.	F.
70 years Retired	16 years Shop Assistant	43 years Shoe Repairer	2 $\frac{3}{4}$ years None
39 years ???	16 years Office	4 years None	
59 years Tramway Cleaner	21 years Housewife	7 years School	
18 years Engineer	31 years Housewife	6 years School	
34 years Tailoring	26 years Housewife		
66 years Pensioner	55 years Housewife		
48 years Shipping Clerk	82 years Housewife		
47 years Night Watchman	27 years Housewife		
31 years ???			
19 years Doorman			
74 years Retired			
64 years Insurance Agent			

Conclusion.

The District maintained its fairly high standard of health, the death rate comparing favourably with the rate for England and Wales.

There were no epidemics of infectious diseases during the year.

There were 3 cases of Polio Myelitis and 1 case of Polio Encephalitis reported during the last quarter, all A.P.M. being treated in Ham Green Hospital. The County Council is responsible for the following up of these cases under the Orthopaedic Scheme.

The Parks and Playing Fields of the area are of great benefit in the district, and fully enjoyed by the children. A Bowling Green has been constructed in Page Park during the year, and will be ready for opening in the 1948 season.
